# CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

**NABL** - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377


Job No.: CTCE/BBMP/KRIDL/W.No.09/CSR-01/533o/CEMENT/2017-18 Date: 02.01.2018

## TEST REPORT ON CEMENT

| | | |
|---|---|---|
| * Customer | : | **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore. |
| * Agency | : | **Executive Engineer,** KRIDL, Bangalore. |
| * Name of Work | : | Construction of Gazibo at Suvarna Mahotsava ground (NTI ground) at Vidyaranyapura main road in Ward No.09, Vidyaranyapura Sub Division, BBMP, Bangalore. |
| * Reference | : | BBMP/EE/BTP/WO/65/2016-17 Dated: 11.07.2016 |
| * Sample ID | : | Cement |
| Sample Received on | : | 01.01.2018 |
| Period of Testing | : | 01.01.2018 to 02.01.2018 |

The results of the tests conducted on the cement sample are as follows:

| Sl. No | Descriptions | Test Method as per IS | Test Result | Requirements as per IS: 8112-2013 |
|---|---|---|---|---|
| 1 | Standard Consistency | IS-4031 (Part -4) 1988 (RA-2009) | 29.50 % | - |
| 2 | a) Initial Setting Time | IS-4031 (Part -5) 1988 (RA-2009) | 170 Minutes | Not Less than 30 Minutes |
| | b) Final Setting Time | IS-4031 (Part -5) 1988 (RA-2009) | 490 Minutes | Not More than 600 Minutes |
| 3 | Soundness by Le Chartlier Method | IS-4031 (Part-3) 1988 (RA-2009) | 1 mm | Not more than 10mm |

*Information is furnished by the Customer/Representative.

Note:

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⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

*********

VIDYARANI P.K.
Technical Manager


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Job No.: CTCE/BBMP/KRIDL/W.No.09/CSR-01/533o/SAND-Gradation/2017-18 02.01.2018

## TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

| | |
|---|---|
| * Customer | : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore. |
| * Agency | : **Executive Engineer,** KRIDL, Bangalore. |
| * Name of Work | : Construction of Gazibo at Suvarna Mahotsava ground (NTI ground) at Vidyaranyapura main road in Ward No.09, Vidyaranyapura Sub Division, BBMP, |
| * Reference | : BBMP/EE/BTP/WO/65/2016-17 Dated: 11.07.2016 |
| * Sample ID | : Fine Aggregates |
| Technical Reference | : IS : 2386 (Part 1) - 1963 (RA-2007) |
| Sample Received On | : 01.01.2018 |
| Date of Testing | : 02.01.2018 |

Total Wt. of Aggregates in gms = **1000**

| IS Sieve Size in mm | Cumulative Weight Passing in % | Specific Limits as per IS 383-1970 (RA- 2007) | | | |
|---|---|---|---|---|---|
| | | Zone-I | Zone-II | Zone-III | Zone-IV |
| 10 | 100 | 100 | 100 | 100 | 100 |
| 4.75 | 96.10 | 90-100 | 90-100 | 90-100 | 95-100 |
| 2.36 | 78.10 | 60-95 | 75-100 | 85-100 | 95-100 |
| 1.18 | 58.10 | 30-70 | 55-90 | 75-100 | 90-100 |
| 600 Micron | 42.20 | 15-34 | 35-59 | 60-79 | 80-100 |
| 300 Micron | 22.40 | 5-20 | 8-30 | 12-40 | 15-50 |
| 150 Micron | 6.40 | 0-10 | 0-10 | 0-10 | 0-15 |

* Information is furnished by the Customer/Representative

**Remarks :** This sample is under Zone-II specific limits.

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Job No.: CTCE/BBMP/KRIDL/W.No.09/CSR-01/533o/AGG/GR/2017-18 02.01.2018

## TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

| | | |
|---|---|---|
| * Customer | : | **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore. |
| * Agency | : | **Executive Engineer,** KRIDL, Bangalore. |
| * Name of Work | : | Construction of Gazibo at Suvarna Mahotsava ground (NTI ground) at Vidyaranyapura main road in Ward No.09, Vidyaranyapura Sub Division, BBMP, Bangalore. |
| * Reference | : | BBMP/EE/BTP/WO/65/2016-17 Dated: 11.07.2016 |
| * Sample ID | : | Coarse Aggregates (40mm) |
| Technical Reference | : | IS : 2386 (Part 1) -1963 (RA-2011) |
| Sample Received on | : | 01.01.2018 |
| Date of Testing | : | 02.01.2018 |

Total Wt. of Aggregates in gms= **5000**

| IS Sieve Size in mm | Cumulative Weight Passing in % | Specific Limits as per IS 383-1970 (RA- 2011) | |
|---|---|---|---|
| | | Graded | Single Sized |
| 80 | 100 | 100 | - |
| 63 | 100 | - | 100 |
| 40 | 97.54 | 95-100 | 85-100 |
| 20 | 38.34 | 30-70 | 0-20 |
| 10 | 12.34 | 10-35 | 0-5 |
| 4.75 | 2.34 | 0-5 | - |

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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# CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

**NABL** - Accredited Laboratory as per ISO / IEC-17025 : 2005

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Job No.: CTCE/BBMP/KRIDL/W.No.09/Steel/2017-18 02.01.2018

## TEST REPORT ON REINFORCEMENT STEEL

| | | |
|---|---|---|
| * Customer | : | **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore. |
| * Agency | : | **Executive Engineer,** KRIDL, Bangalore. |
| * Name of work | : | Construction of Gazibo at Suvarna Mahotsava ground (NTI ground) at Vidyaranyapura main road in Ward No.09, Vidyaranyapura Sub Division, BBMP, Bangalore. |
| * Reference | : | BBMP/EE/BTP/WO/65/2016-17 Dated: 11.07.2016 |
| * Samples ID | : | 10 mm Bar |
| Technical Reference | : | IS: 1786-2008 (RA-2013) |
| Date of Testing | : | 02.01.2018 |

| Sl No | Nominal size (dia) (mm) | Mass per metre (Kg/mtr) | TENSILE STRENGTH | | | Bend Test | Rebend Test |
|---|---|---|---|---|---|---|---|
| | | | 0.20% proof stress/Yield stress N/mm2 | Tensile strength (Ultimate stress) N/mm2 | Elongation percent gauge length | | |
| 1 | 10 | 0.62 | 512 | 553 | 13.1 | O.K | O.K |

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Job No.: CTCE/BBMP/KRIDL/W.No.09/CSR-01/533o/Cube/2017-18 06.02.2018

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

| | | |
|---|---|---|
| * Customer | : | **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore. |
| * Agency | : | **Executive Engineer,** KRIDL, Bangalore. |
| * Name of the work | : | Construction of Gazibo at Suvarna Mahotsava ground (NTI ground) at Vidyaranyapura main road in Ward No.09, Vidyaranyapura Sub Division, BBMP, Bangalore. |
| * Reference | : | BBMP/EE/BTP/WO/65/2016-17 Dated: 11.07.2016 |
| * Sample ID | : | Drain Concrete |
| Technical Reference | : | IS: 516-1959 (RA-2013) |
| Size of cubes | : | 150mmx150mmx150mm |
| Cross Sectional Area | : | 22500 $mm^2$ |
| * Grade of Concrete | : | $M_{20}$ |
| Compressive Strength as on | : | $28^{th}$ day |
| Sample Received on | : | 06.02.2018 |

| Sl.No. | * Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 09.01.2018 | 06.02.2018 | 8.123 | 495.6 | 22.03 |
| 2 | 09.01.2018 | 06.02.2018 | 8.250 | 508.5 | 22.60 |
| 3 | 09.01.2018 | 06.02.2018 | 8.310 | 525.4 | 23.35 |

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